

## **Session Program**

**30 May 2022 to 2 June 2022**



# **InterPore2022**

## **MS11**

# Monday 30 May

10:50

## MS11: Parallel Oral Session 1C

### Session

10:50–11:05

#### **Experimental study of drying in the presence of fluorescent particles in model porous media**

##### **Speaker**

Elisa Ghiringhelli

11:05–11:20

#### **Pore-Scale Insights into In-Situ Mixing Control By Polymer-Enhanced Low-Salinity Waterflooding (PELS)**

##### **Speaker**

Prof. Hassan Mahani

11:20–11:35

#### **Microfluidics-based analysis of dynamic contact angles relevant for underground hydrogen storage**

##### **Speaker**

Willemijn van Rooijen

11:35–11:50

#### **Wettability alteration in thiolene-based polymers: surface characterization and advanced fabrication techniques**

##### **Speaker**

Mahtab Masouminia

11:50–12:05

#### **Nanoparticle-based suspensions and emulsions for enhanced oil recovery**

##### **Speaker**

Ms Anastasia Strekla

12:05–12:20

#### **Measurement of capillary pressure and relativity permeability relations for two-phase air-water cross flow in thin sintered metal wicks**

##### **Speaker**

Mr Bhaskarjyoti Sarma

12:20

14:10

## MS11: Parallel Oral Session 2C

### Session

14:10–14:25

#### **Geometric criteria for the snap-off of a non-wetting droplet in pore-throat channels with rectangular cross-sections**

##### **Speaker**

Dr Chiyu Xie

14:25-14:40

**Flow-direction dependence of upscaled capillary pressure-saturation curve****Speaker**

Vahid Niasar

14:40-14:55

**Experimental basis and numerical modeling for a statistical characterization of multimodal spatial heterogeneity of nanoscale calcite dissolution rates****Speaker**

Chiara Recalcati

14:55-15:10

**Investigation of the corner flow development in porous media in the absence of main front movement****Speaker**

S.ali ghoreishi

15:10

## Tuesday 31 May

16:30

### MS11: Parallel Oral Session 6C

#### Session

16:30–16:45

#### **Influence of solute transport and capillarity on bubble evolution in porous networks**

##### **Speaker**

Nerine Joewondo

16:45–17:00

#### **Salt crystallization at a hydrophobic-hydrophilic interface in quasi 2D layered porous material.**

##### **Speaker**

Ms Rozeline Wijnhorst

17:00–17:15

#### **Novel Pore Scale Visualization during CO<sub>2</sub> Injection into CH<sub>4</sub> Hydrate Saturated Porous Media**

##### **Speaker**

Dr Jyoti Shanker Pandey

17:15–17:30

#### **Probing Multiscale Dissolution Dynamics in Natural Rocks through Microfluidics and Compositional Analysis**

##### **Speaker**

Prof. Ilenia Battiato

17:30–17:45

#### **On the Challenges of Pore Scale Models to Capture Minerals Precipitation and Dissolution in microfluidic setups: A Combined Computational-Lab-on-a-Chip Approach**

##### **Speaker**

Mohamed Mahrous

17:45–18:00

#### **PIV and Microfluidic Investigation of recirculation induced reaction hot spots in porous media**

##### **Speaker**

Michael Chen

18:00